

## About The Institute

Malla Reddy College of Engineering & Technology (MRCET) is a constituent College of Malla Reddy Group of Institutions (MRGI) established in 2004. The College offers Engineering courses B.Tech in AE, CSE, CSE(AI&ML), CSE(CS), CSE(IOT), CSE(DS), AI&ML, AI&DS, ECE, EEE, IT, MECH disciplines and Post Graduate (M.Tech.) courses in ECE, CSE, MECH and AE specializations in addition to MBA programmes. The college is conferred with Autonomous status from UGC, Govt of India and Approved by AICTE, Permanently Affiliated to JNTUH, Hyderabad, Accredited by NBA, NAAC with A-Grade. The institute is also certified with ISO 9001:2005.

## About The Department

The Department of Information Technology was established in 2007 with an annual intake of 60 and has grown to a current annual intake of 180 students. The department has been accredited by NBA and NAAC – A Grade. The greatest resource of the department is its dedicated faculty with a well-balanced mix of experienced seniors and energetic junior faculty members, organized in a well-defined hierarchy of administration. It offers contemporary subjects like Mobile Application Development, Big Data Analytics, Machine Learning, Block-Chain Technology etc and specialized labs like Linux programming, Web Technologies, Data warehousing & Data Mining and has a Centre of Excellence in Big Data Analytics.

### Chief Patron

Sri. Ch. Malla Reddy, Chairman, MRGI

### Patrons

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Dr. V.S.K. Reddy, Director, MRCET

Dr. S. Srinivasa Rao, Principal, MRCET

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Dean, Students Welfare, MRCET

Dr. P.H.V. Shesha Talpa Sai

Dean – R&D

Dr. G. Sharada

HOD, IT

### Coordinator

Dr. K. Suresh, Associate Professor

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### Co-Coordinators

Mr. P.V. Naresh, Assistant Professor

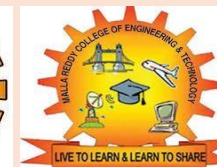
Department of IT, MRCET

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AICTE Training and Learning (ATAL)

Academy sponsored



SIX Days

Faculty Development Programme (FDP)

on

**NEXT GEN SOLUTIONS FOR MEDICAL  
CHALLENGES POWERED BY AI BASED  
INTELLIGENT SYSTEMS**

(Online Mode)

16.12.2024 to 21.12.2024

### Coordinator

Dr. K. Suresh

Associate Professor, Department of IT

### Co-Coordinator

Mr. P.V. Naresh

Assistant Professor, Department of IT



Organized by

Department of Information Technology  
Malla Reddy College of Engineering &  
Technology

## About ATAL Academy

The AICTE Training and Learning (ATAL) Academy, established by the All India Council for Technical Education (AICTE), is a specialized institution dedicated to enhancing the knowledge and skills of faculty members, research scholars, and students in the field of technical education. ATAL Academy offers a wide range of faculty development programs in various contemporary technology areas. These programs are designed to keep educators and learners updated with the latest advancements in technology and to foster innovation and research in technical education. The academy conducts numerous programs in collaboration with government institutions, benefiting a significant number of participants each year. It plays a pivotal role in elevating the quality of technical education and research in India by providing access to cutting-edge knowledge, resources, and expertise. ATAL Academy is a valuable resource for those seeking to stay at the forefront of technological advancements and contribute to the growth and excellence of technical education in the country.

## Objective of the FDP

The Faculty Development Programme is designed to offer participants an extensive overview of Machine learning and Deep learning fundamentals, tools and techniques that are critical in solving problems in deep learning domains. This course is customised to provide an insight into the latest research trends in healthcare applications using deep learning techniques. Participants will be exposed to a wide range of topics, encompassing the hands-on session on classification problems, the segmentation of chest X-Rays based on radiograph images, the detection of multi pulmonology diseases, predictive analytics for cardiovascular diseases, and more. The participants will also have a wider perspective to Real world applications and research directions in healthcare industry. The Faculty Development Programme offers an invaluable opportunity for participants to expand their horizons and contribute to the cutting-edge advancements in healthcare and deep learning.

## Topics to be Covered

The major topics to be covered (though not limited to) are as follows:

- Overview of AI and its impact on health care Industry
- Common Applications, trends in AI powered diagnosis
- Introduction to Machine, Deep Learning
- Types of Medical Data, Data Pre - Processing
- Classification of various disease using Deep learning
- Segmentation using UNET, Various Segmentation Algorithms
- Ensemble Models for Developing AI Powered Applications
- Predictive Analysis in Health Care
- Article Discussions
- Security and privacy issues in healthcare applications
- Hands-on lab sessions on various case studies
- Recent Scope and Advancements in Artificial Intelligence for Healthcare

## Resource Persons

Resource persons are from reputed institutes and software industry. Some of the key speakers are:

Dr. A.P. Siva Kumar, JNTUA  
Dr. A.S.N. Chakravarthy, JNTUK  
Dr. P Naga Srinivasu, Amritha Vishwa Vidyapeetham  
Dr. G. Srinvas, Gitam University  
Dr.T.K. Mishra, Manipal University  
Dr.G.N. Vivekananda, VIT  
Mr. Harish Bommidu, Accenture, IND  
Ms. Mounika Narkedamilli, TCS, IND  
Mrs. Y. Pramathi, TCS, IND  
Mr. K. Chenna Kesava Reddy, Cloud SI INC, USA  
Mr. Raja Kurumalla, Cognizant Technologies, USA

## Who Should Attend

The faculty members of the AICTE approved institutions, research scholars (PhD. and PG students), participants from Government and industry.

**There is no fee for Registration, Course and Certification** (Max. 200 participants). The participants will be selected on first come, first serve basis. Further, Certificate will be provided to the participant after successful completion of the training program with at least 80% attendance and Continuous Comprehensive Assessment.

## How to Apply

Login to AICTE ATAL Portal and register as participant by visiting: <https://atalacademy.aicte-india.org>. After registering as participant, choose this program from the list of workshops.

## Contact Details

For any queries regarding this programme,

**Please contact:**

**The Coordinators, ATAL FDP**

**Department of Information Technology,  
Malla Reddy College of Engineering & Technology**

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Ph: +91 9951415559,9705243777

**ATAL Online 6 Day Faculty Development Programme 2024-25 Schedule**

**FDP Thrust Area: Health Care & Med-Tech**

**FDP Title: NEXT GEN SOLUTIONS FOR MEDICAL CHALLENGES POWERED BY AI BASED INTELLIGENT SYSTEMS**

**Start Date: 16.12.2024**

**End Date: 21.12.2024**

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
6:00PM to 6:30PM Inaugural Session	6:00PM to 7:30PM Session 3 Topic: Types of Medical Data Annotation Techniques Handling Missing Data Data Pre-Processing Techniques.  Name of the Expert: Dr.Paravathaneni Naga Srinivasu Associate Professor, Amritha Years of Exp: 11 Years	6:00PM to 7:30PM Session 5 Topic: Intelligent Applications in Disease detection Article Discussion  Name of the Expert: Dr.Paravathaneni Naga Srinivasu Associate Professor, Amritha Years of Exp: 11 Years	6:00PM to 7:30PM Session 7 Topic: Predictive Analysis in health care Article Discussion based on Predictive Analysis  Name of the Expert: Mr. K. Chenna Kesava Reddy Data Engineer, Cloud SI INC, USA Years of Exp:11 Years	6:00PM to 7:30PM Session 9 Topic: Challenges in developing AI Applications. Role of optimizers  Name of the Expert: Dr. G. Srinivas Professor, GITAM AP Years of Exp: 20 Years	2:00PM to 3:30PM Session 11 Topic: Article Discussion Real world Applications and Research Directions in Healthcare Technology  Name of the Expert: Mr. Harish Bommi, Software Analyst, Accenture, Years of Exp: 10 Years
6:30PM to 8:00PM Session 1 Topic: * Overview of AI and its impact on health care industry * Common Applications, trends in AI Powered diagnostics, treatment and patient care.  Name of the Expert: Dr. A.P. Siva Kumar Professor, JNTUA Years of Exp: 18 Years	7:30PM to 9:00PM Session 4 Topic: Image Segmentation UsingUNET &various Algorithms for Segmentation  Name of the Expert: Dr. T.K. Mishra Associate Professor, Manipal University Years of Exp:20 Years	7:30PM to 9:00PM Session 6 Topic: Ensemble Models for developing AI Powered healthcare applications  Name of the Expert: Dr.G. Srinivas Professor, GITAM AP Years of Exp: 20 Years	7:30PM to 9:00PM Session 8 Topic: Hands on Session: to create AI Application for predictive analysis  Name of the Expert: Mr. Raja Kurumalla Senior Associate, Cognizant Technologies USA Years of Exp: 10 Years	7:30PM to 9:00PM Session 10 Topic:Hands on practical session in developing machine learning model to detect disease  Name of the Expert: Ms. Mounika Narkedamilli, IT Analyst, TCS Years of Exp: 10 Years	3:30PM to 5:00PM Session 12 Topic:Security and Privacy Issues in healthcare Applications  Name of the Expert: Y. Pramathi, Senior Developer, TCS Years of Exp: 10 Years
8:00PM to 9:30PM Session 2 Topic: * Introduction to Machine Learning and Deep Learning Algorithms (Supervised and Unsupervised), Convolutional Neural Networks, Transfer Learning  Name of the Expert: Dr. A.S.N. Chakravarthy Professor, JNTUK Years of Exp: 22 Years					5:00PM to 6:30PM Session 13 Topic: Recent Scope and Advancements in Artificial Intelligence for Healthcare  Name of the Expert: Dr G N Vivekananda Associate Professor, VIT Years of Exp: 14 Years
					6:30PM to 7:30PM Online test & feedback
					7:30PM to 8:00PM Valedictory Session